

Appin No. 09/363,121
Amdt date October 20, 2003
Reply to Office action of August 12, 2003

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Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (Currently Amended) A cathode ray tube comprising:
a panel having a phosphor screen;
a cylindrical neck having an electron gun assembly disposed therein for generating a plurality of electron beams;
a funnel formed between the panel and the neck, and having a substantially rectangular cone portion contiguous to the neck, the substantially rectangular cone portion having rounded inside corners tangentially joining adjacent cone walls of the rectangular cone portion;
an anode button on the funnel to supply a voltage in the funnel; and
an inner graphite layer disposed on an inner surface of the funnel to form a path for transmission of the voltage,
wherein the inner graphite layer satisfies the following condition:

Td / Th is within the ranges of either $0.9 \leq Td / Th < 1$
[[and]] or $1 < Td / Th \leq 1.36$

where Td is an approximate thickness of the inner graphite layer along each rounded inside corner tangentially joining adjacent cone walls of the rectangular cone portion, and Th is

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an approximate thickness of the inner graphite layer disposed on inside horizontal walls of the cone portion.

2. (Currently Amended) A cathode ray tube comprising:

a panel having a phosphor screen;

a cylindrical neck having an electron gun assembly disposed therein for generating a plurality of electron beams;

a funnel formed between the panel and the neck, and having a substantially rectangular cone portion contiguous to the neck, the substantially rectangular cone portion having rounded inside corners tangentially joining adjacent cone walls of the rectangular cone portion;

an anode button on the funnel to supply a voltage in the funnel; and

an inner graphite layer disposed on an inner surface of the funnel to form a path for transmission of the voltage,

wherein the inner graphite layer satisfies the following condition:

T_d / T_v is within the ranges of either $0.9 \leq T_d / T_v < 1$

or $1 < T_d / T_v \leq 1.36$

where T_d is an approximate thickness of the inner graphite layer along each rounded inside corner tangentially joining adjacent cone walls of the rectangular cone portion, and T_v is an approximate thickness of the inner graphite layer disposed on inside vertical walls of the cone portion.